

10088319

PCT/US00/24966

WO 01/19844

1/14

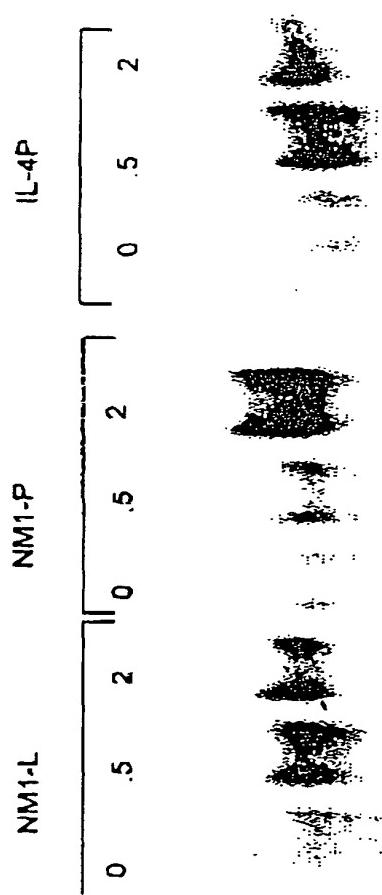


FIGURE 1

----- Pcd1 ----->
 gagaagcaat tagttagtgg gacaccaggc ataaaattca tccaaacttt -406

 tggacatg tggttttttc tccatatacc aggtcccg ttcgtattag -356

 taagatggaa attggaaataa gtcatttgct gggtggatgaa tttgtcactt -306

 tccttgaac tggtaaaccc aaaaagttag acagtgtatg gaaaatactg -256

 ccattgtctg ttaagaagtc tatgacattt caaggcaaga atgaatatat -206

 ----- Pcd3 ----->
 ggaagaaaaa acttattttcttctttactta caaaaggaa agcctggaaag -156

 *
 tgaatgatat gggataatt aaaaaaaaaa aaaaaaaaaaaaaaaaaattttac -106
 ----- C-----<----- Pcd4 -----<

 dttaacgaaaa ttgtgggaga gaagactacgg aagcacattt tccaggaaatg -56

 gtgggtgca acggattgtgc gctcttaact aatccgttgtt aaggggccca -6
 -----<----- Pcd2 -----<

 -1
 ctttg

FIGURE 2

Sample	Lane	5'	Poly-A Tract	3'	Length of Tract	Sequence Date
RA ST 06B						
	3	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	23	9/23/98
	5	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	24	9/23/98
	6	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	25	9/23/98
RA ST07 (Male)						
	13	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	23	11/12/97
	15	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	23	11/12/97
	11	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	24	11/12/97
	S12	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	24	10/30/97
RA ST10						
	A	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	22	9/23/98
	B	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	23	9/23/98
	C	ATT	AAAAAAAACAAAAAAACAAAAAC	CCCTT	24	9/23/98
RA ST14						
	3	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	23	9/23/98
	16	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	24	9/23/98
	1	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	24	9/23/98
	D	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	24	9/23/98
RA ST23						
	L	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	23	9/28/98
	D	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	24	9/23/98
	14	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	24	9/28/98
	28	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	24	9/23/98
	I	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	24	9/28/98
N3 PBL						
	E	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	20	9/23/98
	31	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	22	9/23/98
	18	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	23	9/28/98
	21	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	24	9/23/98
	30	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	24	9/23/98
N7 PBL						
	F	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	20	9/23/98
	H	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	22	9/23/98
	25	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	22	9/28/98
	26	ATT	AAAAAAAACAAAAAAACGAAAAC	CCCTT	22	9/28/98
	39	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	22	9/23/98
	G	ATT	AAAAAAAACAAAAAAACAAAAAA	CCCTT	24	9/23/98

FIGURE 3

10003331 10/08/99

WO 01/19844

PCT/US00/24966

4/14

SAMPLE	DX	GENDER/ AGE/ ETHNICITY	SEQUENCING ARMS Subclones with C	SCREENING + CONFIRMATION (Sequence Date)
ST05	RA	F/38/HI	-	0/6
ST06A	RA	F/52/CA	-	0/4
ST06B	-	-	-	0/6
ST07	JRA	M/41/CA	+	4/4 (10/30/97; 11/12/97)
ST10	RA	F/78/CA	+	3/7 (9/23/98)
ST14	AVN	M/64/CA	+	1/4 (9/28/98 - Confirmation Pending)
ST18	RA	-	-	0/4
ST19	RA	-	-	0/12
ST20B	RA	-	-	0/4
ST23	RA	F/68/CA	+	4/6 (9/23/98; 9/28/98)
ST29	RA	F/62	-	0/3
ST33	RA	F/54	-	0/5
ST34	RA	F/63	-	0/5
ST35	RA	F/70/CA	-	3/5 (10/14/98)
ST36	RA	F/54	-	0/5
ST38	RA	F/38	-	0/3
ST39	O/A/RA	F/77	-	0/4
ST46	RA	F/66/CA	-	0/6
ST51	RA	F/55	-	0/6
ST52	RA	F/65	-	0/5
ST53	RA	F/50	-	0/8
ST55	RA	F/61	-	0/7
ST60	RA	F/72/CA	-	0/7
ST61	RA	F/60	-	0/7
ST64	RA	M/40	-	0/5
ST67	RA	F/46	-	0/8
ST77	RA	F/50/CA	-	0/4
ST78	RA	F/65/CA	-	+
ST30	RA	F/66/HI	-	+
ST31	RA	F/67/HI	-	+
ST37	RA	F/80/CA	-	+? ND
ST40	O/A/RA	F/59/CA	-	+ + 2/4 (2/23/99)
ST41	OA	M/63/HI	-	+ + 4/4 (2/23/99)
ST42	JRA	F/50/CA	-	+ ND
ST43	RA	F/60/CA	-	-? 0/4
ST44	RA	F/75/CA	-	-? 0/5
ST45	RA	F/77/CA	-	- ND
ST47	RA	F/53/CA	-	- + 4/4 (2/23/99)
ST50	RA	F/69/CA	-	+ Confirmation Pending
PB35	RA	F/70/CA	+	2/5 (11/19/99)
PB40	O/A/RA	F/59/CA	+	1/4 (10/4/99) (confirmation pending)
PB41	OA	M/63/HI	-	0/4
PBM	RA	F/35/HI	-	0/8
PB1	RA	F/	+	6/8 (11/19/99; 11/18/99)
PB2	RA	-	-	0/7
PB29	RA	F/72/CA	-	+ + 2/2 (7/22/99)
PB40	RA	F/66/CA	-	+ + 3/3 (5/12/99)
PB500	RA	F/45/AS	-	-? 0/5 (5/12/99)
PB512	RA	F/67/CA	-	+ + 4/5 (5/12/99)
PB519	RA	F/72/AS	-	? 0/5 (7/27/99)

FIGURE 4

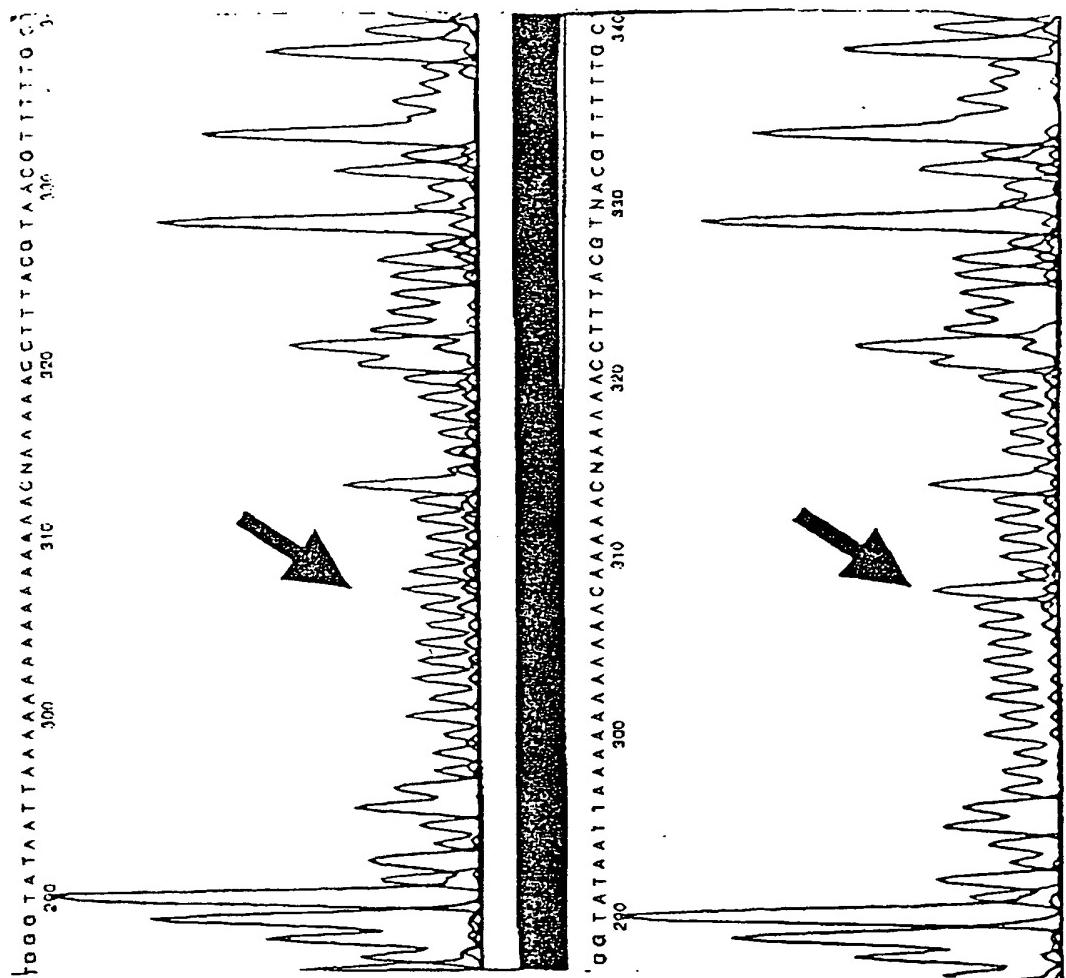


FIGURE 5

100088319

WO 01/19844

PCT/US00/24966

6/14

SAMPLE	DX	GENDER/ AGE/ ETHNICITY	SEQUENCING ARMS Subclones	SEQUENCING SCREENING	+ CONFIRMATION with C
<i>SLE PERIPHERAL BLOOD (n = 7)</i>					
PB260	SLE	-	-	0/1	
PB343	SLE	-	-	0/3	
PB345	SLE	-	-	0/3	
PB346	SLE	-	-	0/4	
PB347	SLE	-	-	0/3	
PB349	SLE	-	-	0/3	
PB359	SLE	-	-	0/4	

HEALTHY SUBJECT PERIPHERAL BLOOD (N = 23)

N1	HEALTHY SUBJECT	-	0/4	
N2	HEALTHY SUBJECT	-	0/3	
N3	HEALTHY SUBJECT	-	0/9	
N4	HEALTHY SUBJECT	-	0/3	
N5	HEALTHY SUBJECT	-	0/4	
N6	HEALTHY SUBJECT	-	0/4	
N7	HEALTHY SUBJECT	-	0/8	
N8	HEALTHY SUBJECT	-	0/3	
N9	HEALTHY SUBJECT	-	0/3	
N10	HEALTHY SUBJECT	-	0/3	
N11	HEALTHY SUBJECT	-	0/3	
N12	HEALTHY SUBJECT	-	0/2	
N13	HEALTHY SUBJECT	-	0/1	
N14-N23	HEALTHY SUBJECTS	-	ND	

FAMILY WITH UNKNOWN MEDICAL HISTORY:

BCL7007	LYMPHOBLASTOID	+	3/3	(11/2/98)
BCL7016	CELL LINES FROM	-	0/3	
BCL7050	MEMBERS OF UTAH FAMILY	+	2/3	(11/2/98)

FIGURE 6

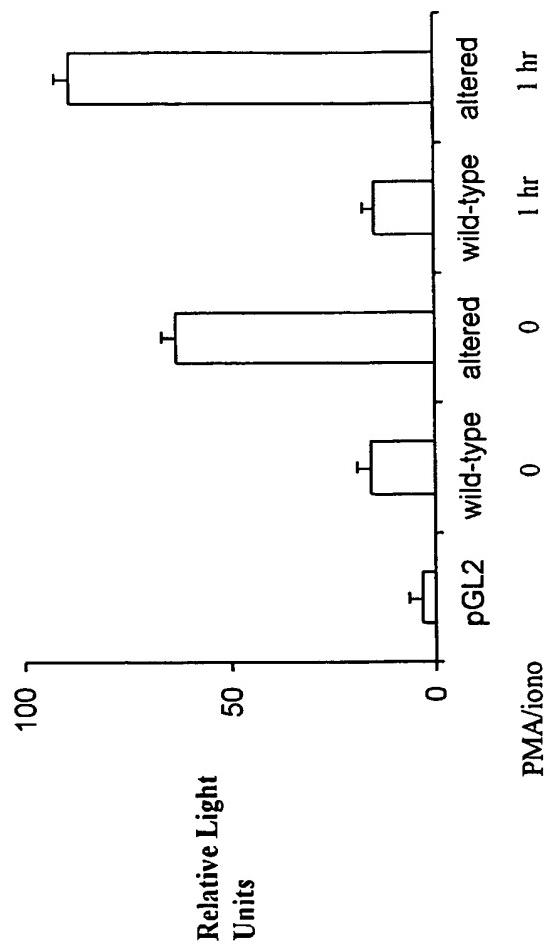


FIGURE 7

Human	<u>TTACAAAAAGG</u> -AA- GCCTGGAAAGTGAATGAT <u>TGGTATAATT</u>	*	*	-136
Mouse	TTAACAAAAGGGAAAGCTGGAAAGTGAATGAT <u>TGGTGTGATT</u>			
Human	AAAAAAACAAAAACAAAAA	*	*	
Mouse	AAAAAAAGAAAGAAAGATTAGAAAAAC	*	*	
				POLY-A
				TRACT
Human	CCT <u>TACGTAACTTTT</u> - GCTGGGAGAGAAAGACTACCGAAGCACA	*	*	-69
Mouse	CCTT <u>TACGTAACTTTT</u> GCTGGACAGAAAGACTACCGAAGCACA	*	*	
Human	<u>TTTCAGGAAGTGTGGCTGCAACGATTGTGCCTCTTAAC</u>	*	*	-23
Mouse	TTTT <u>CAGGAAGTGTGGCTGCGACGATTGTGCCTCTTAAC</u>	*	*	
Human	CCT <u>GAGTAAGGTGGCCACTTTG</u> 3'	*	*	-1
Mouse	CCT <u>GAGTAAGGGGGCACCTTTG</u>	*	*	

FIGURE 8

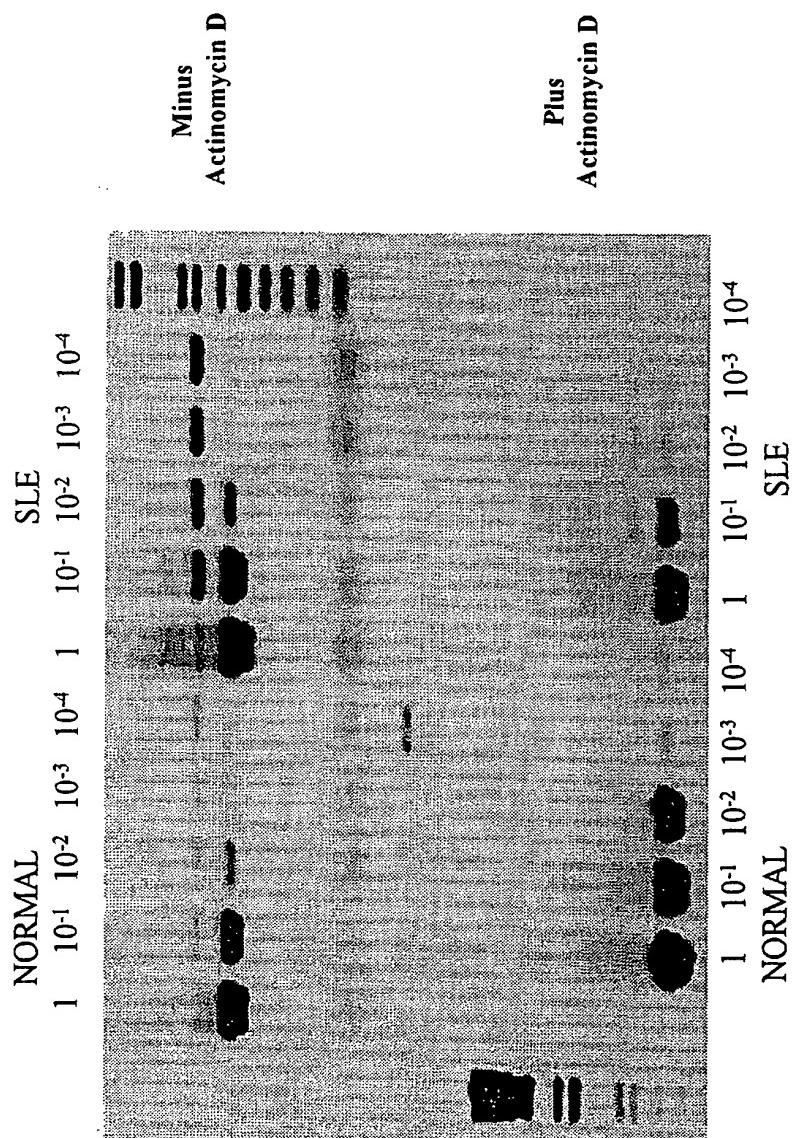


FIGURE 9

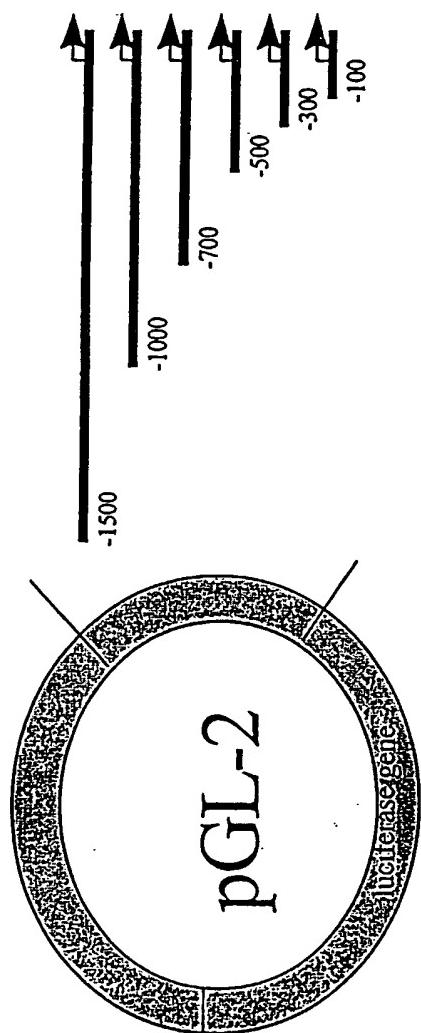


FIGURE 10

10088319 10/088319

10/088

PCT/US00/24966

11/14

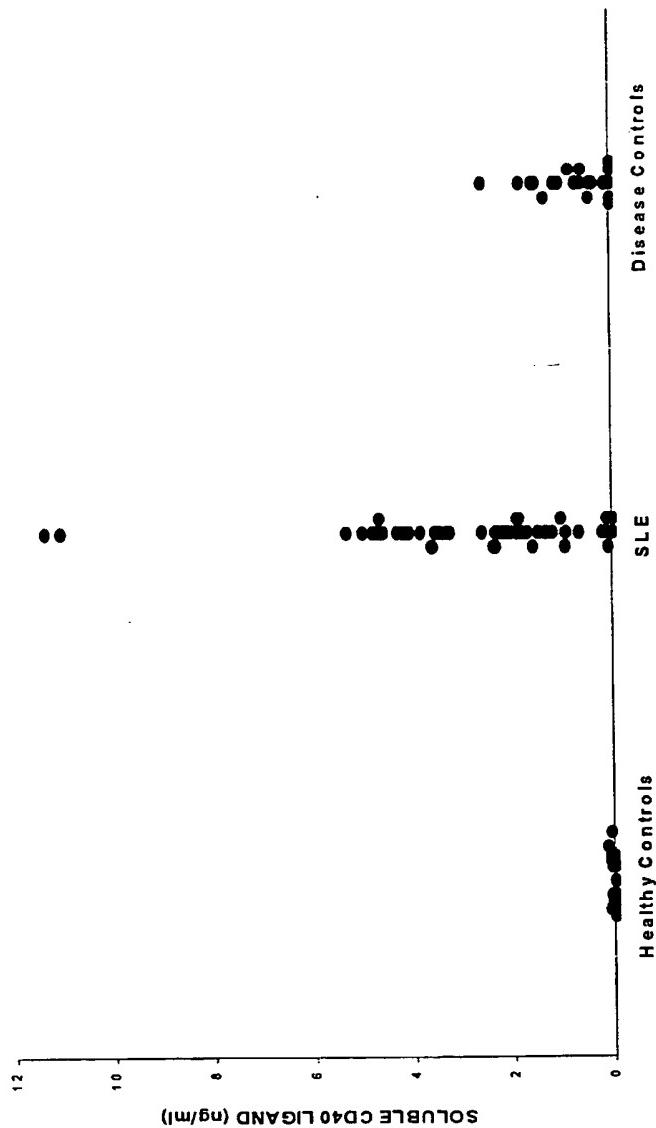


FIGURE 11

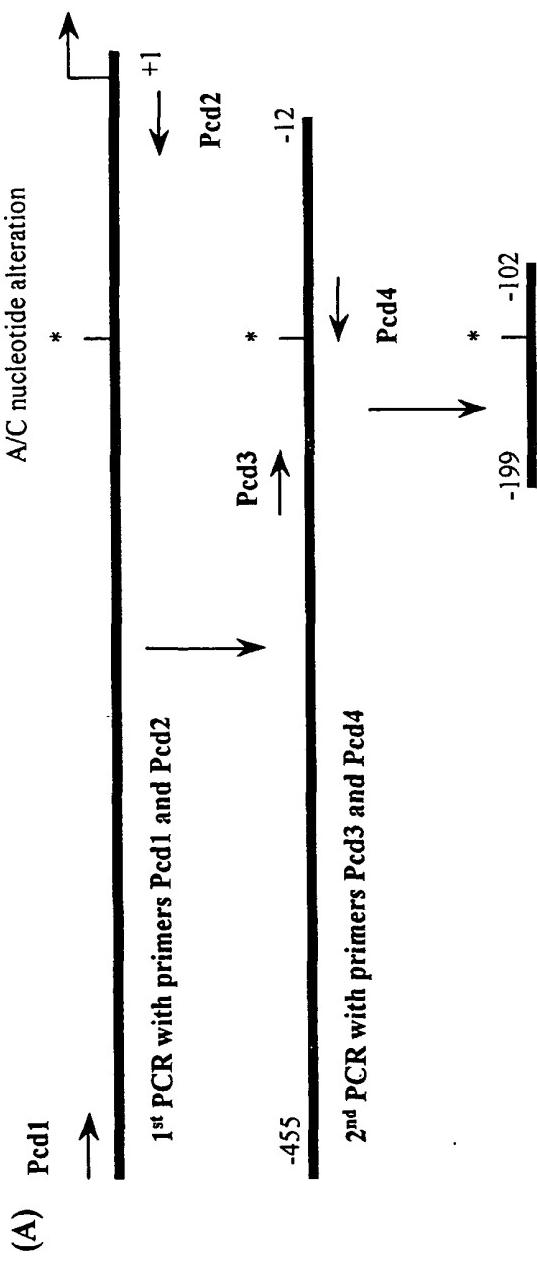


FIGURE 12

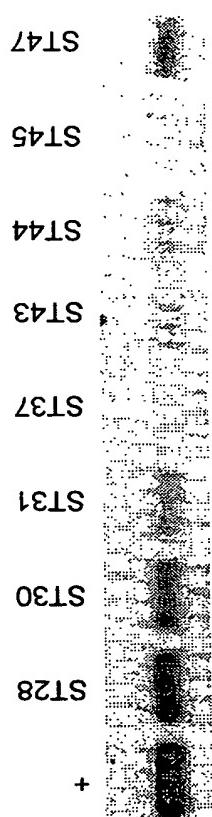


FIGURE 13

PROBABLE GENOTYPE OF POLY-A TRACT:	SUBJECTS:	AA	AC	CC	UNSURE
HEALTHY SUBJECTS		23	0	0	0
RHEUMATOID ARTHRITIS (ST)		27	6	2	3
RHEUMATOID ARTHRITIS (PB)		4	6	0	1
TOTAL RA		31	10	2	3
SLE		7	0	0	0

FIGURE 14